

# INSTRUCTIONS FOR SAFE OPERATIONS

## **TOUGHPIX II** EXPLOSION PROOF DIGITAL CAMERA



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READ THIS FIRST

The ToughPIX II 24xx range of flameproof digital cameras are suitable for use in hazardous areas (Ex zones: potentially explosive environments).

Read and understand all Warnings and Cautions before using this product.

Liability

The technical specification of the camera complies with relevant European Ex standards (EN 60079-0 and EN60079-1).

The user is solely responsible for ensuring the equipment is suitable for the intended purpose and environments.

CorDEX Instruments will not be liable for any injury or damage resulting from unauthorized adjustments to, or dismantling of, the camera or for use with inappropriate applications or environments.

Trademark Information

Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation. Pentium® is a registered trademark of Intel Corporation.

Macintosh is a trademark of Apple Computer, Inc. SD™ is a trademark.

Other names and products may be trademarks or registered trademarks of their respective owners.

Product Information

Product design and specifications are subject to change without notice. This includes primary specifications, software, software drivers, and user’s manual. The User Manual is a general reference guide for the product.

The manufacturer assumes no liability for any errors or discrepancies in the user manual.

# INSTRUCTIONS FOR SAFE USE

The conditions referenced in this section relate specifically to hazardous area applications and must be followed.

In accordance with clause 5.1 of EN 60079-1, the critical dimensions of the flamepaths are:

Flamepath	Maximum Gap (mm)	Minimum L (mm)
Rearcarriage/ front carriage	0.04	6.5
Flash Window/ frontcarriage	0.1	13.8
LCDWindow/ frontcarriage	0.1	13.8
Lens window/ frontcarriage	0.1	13.8
Operatingrod/ rear and	0.1	10.5

- Contact the manufacturer for information on the dimensions of the flameproof joint
- The apparatus must only be used in areas where there is low risk of impac
- Do not charge battery pack in the hazardous are
- The battery must be removed from the camera and charged in the CorDEX Instruments ToughPIX II charging bay part number CDX-2400-XXX. Using a different charging device will void the certification.
- The ToughPIX II 2410 Series digital camera incorporates a protected battery system with a non-replaceable fuse. This fuse is only to be replaced by CorDEX Instruments or a CorDEX Instruments Approved Repair Facility. Failure to do so will void the certification.
- Ensure that the ToughPIX II 2410 Series digital camera battery pack is secured using the plug provided. If the plug is lost, only replace with a plug of the correct size and type. If in doubt, contact your nearest CorDEX Instruments representative.
- The ToughPIX II 2410 Series digital camera is manufactured from aluminium alloy; and must contain less than 7% magnesium by weight and incorporates toughened glass windows. This should be taken into account when considering the end use application.
- TheToughPIX II 2410 Series digital camera cannot be maintained in the field andmust be returned to the manufacturer should repair or maintenance be required.
- USB communications with the ToughPIX II 2410 Series digital camera must only occur within the non-hazardous area
- When replacing the battery pack, the screw must be re-tightened to a torque of 1.5-4Nm and the cover cap replaced.
- Only CorDEX battery pack CDX2400-011 shall be use

# LABELLING

CorDEX Instruments Ltd. 1 Owens Rd, Middlesbrough, TS6 6HE, UK

TP2410 – Explosionproof Digital Camera



II 2 G

Ex d IIB+H2 T6 GbTamb -20°C to +50°C  
ATEX -TRAC13ATEX0046X  
IECEX :IECEX TRC 13.0016X  
Serial Number- XXXX-XX-XXXX  
Year of Construction- YYYY



XXXX

Powered by – Refer to Manual

DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE PRESENT

# OPERATIONAL CAUTIONS


The cautions contained in this section do not relate specifically to safe use in hazardous area applications but should be followed to help prevent damage to the device or personnel.

- Keep out of reach of children
- The TP2410 is a precision instrument. Do not drop it, strike it or use excessive force when handling

## Maintenance

For safety critical maintenance, please refer to EN60079-17

# CERTIFICATION

Model	TP2410
ATEX Certificate No.	TRAC13ATEX0046X
ATEX Coding	<div>CE XXXX</div> <div> IIB+H2 T6 Gb Tamb -20°C to +50°C</div>
Ambient Temperature	-20° to +50°C
Power Supply	ToughPIX II 2410 Series Removable Rechargeable Battery Pack, part number CDX-2410-011